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CLAIM SUMMARY DOCUMENT

1. (Previously Presented): An electrostatic capacitance sensor, comprising
an electrostatic capacitance detector,
an operational amplifier in which a feedback impedance circuit is connected between
an output terminal and an inverse input terminal of said operational amplifier,
a signal line connected between said inverse input terminal of said operational
amplifier and said electrostatic capacitance detector,
an alternating-current signal generator connected to a non-inverse input terminal of
said operational amplifier, and
a shield for shielding at least a portion of said signal line, said shield being connected
to said non-inverse input terminal of said operational amplifier and said alternating-current
signal generator, wherein
said electrostatic capacitance detector comprises a detecting electrode and a shield
electrode,
said detecting electrode comprises a detecting portion for detecting an object to be
detected and an introducing portion for introducing an electrode to said detecting portion,
said shield electrode is connected to said shield, and
at least a portion of said introducing portion of said detecting electrode is shielded by
said shield electrode.
2. (Currently Amended): An electrostatic capacitance sensor as recited in
claim 1, wherein
said detecting electrode and said shield electrode are flat plate-shaped electrodes and
laminated such that they become layers different from each other, and
said detecting electrode and said shield electrode are provided such that at least a
portion of said introducing portion of said detecting electrode and said shield electrode are
superposed as viewed from ~~the~~ a laminated direction of said detecting electrode and said
shield electrode.

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3. (Previously Presented): An electrostatic capacitance sensor as recited in claim 1, wherein
said detecting portion of said detecting electrode and said introducing portion of said detecting electrode are shielded by said shield electrode.

4. (Currently Amended): An electrostatic capacitance sensor as recited in claim 2, wherein
said electrostatic capacitance detector further comprises a second shield electrode,
said second shield electrode is a flat plate-shaped electrode and laminated with said detecting electrode opposite from said shield electrode with respect to said detecting electrode, and

said detecting electrode, said shield electrode and said second shield electrode are provided such that at least a portion of said introducing portion of said detecting electrode and said shield electrode are superposed, said detecting portion of said detecting electrode and said shield electrode are not superposed, and said detecting portion of said detecting electrode and said introducing portion of said detecting electrode are superposed above said second shield electrode as viewed from a the laminated direction of said detecting electrode and said shield electrode.

5. (Previously Presented): An electrostatic capacitance sensor as recited in claim 1, wherein
said detecting portion of said detecting electrode is a flat plate-shaped electrode, and said detecting electrode and said shield electrode are provided such that at least a portion of said shield electrode is located on a side of said detecting portion of said detecting electrode as viewed from a direction perpendicular to a main face of said flat plate-shaped electrode.

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6. (Previously Presented): An electrostatic capacitance sensor as recited in claim 5, wherein
said detecting electrode and said shield electrode are provided such that said shield electrode is located around said detecting portion of said detecting electrode and said introducing portion of said detecting electrode as viewed from the direction perpendicular to the main face of said flat plate-shaped electrode.
7. (Original): An electrostatic capacitance sensor as recited in claim 5, wherein said detecting electrode and said shield electrode are provided in the same layer.
8. (Previously Presented): An electrostatic capacitance sensor as recited in claim 1, wherein
when said electrostatic capacitance detector comprises said detecting electrode and said shield electrode, said detecting electrode and said shield electrode are integrally formed with an insulator capable of mounting an object to be mounted, and
when said electrostatic capacitance detector comprises said detecting electrode, said shield electrode and a second shield electrode, said detecting electrode, said shield electrode and said second shield electrode are integrally formed with an insulator capable of mounting the object to be mounted.
9. (Previously Presented): An electrostatic capacitance sensor as recited in claim 1, wherein
when said electrostatic capacitance detector comprises said detecting electrode and said shield electrode, said detecting electrode and said shield electrode are covered with an insulating layer, and
when said electrostatic capacitance detector comprises said detecting electrode, said shield electrode and a second shield electrode, said detecting electrode, said shield electrode and said second shield electrode are covered with an insulating layer.

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10. (Withdrawn): An object mounting body for mounting an object to be mounted, comprising a detecting electrode and a shield electrode, wherein
said detecting electrode comprises a detector-detecting electrode for detecting an object to be detected and an electrode introducer-detecting electrode for introducing an electrode to said detector-detecting electrode,
said detecting electrode and said shield electrode are flat plate-like electrodes and laminated such that they become layers different from each other, and
said detecting electrode and said shield electrode are provided such that said detecting electrode and said shield electrode are not superposed, and at least a portion of said electrode introducer-detecting electrode and said shield electrode are superposed as viewed from the laminated direction of said detecting electrode and said shield electrode.

11. (Withdrawn): An electrostatic capacitance sensor component, comprising an electrostatic capacitance detector having a detecting electrode and a first shield electrode, and a flat plate-shaped second shield electrode laminated with said detecting electrode such that said second shield electrode and said detecting electrode become layers different from each other, wherein

said detecting electrode comprises a detector-detecting electrode for detecting an object to be detected and an electrode introducer-detecting electrode for introducing an electrode to said detector-detecting electrode,

said detector-detecting electrode is a flat plate-shaped electrode, said detecting electrode and said first shield electrode are provided such that at least a portion of said first shield electrode is located on a side of said detector-detecting electrode as viewed from a direction perpendicular to a main face of said flat plate-like electrode, and

said detecting electrode and said second shield electrode are provided such that said detecting electrode and said second shield electrode are not superposed, and at least a portion of said electrode introducer-detecting electrode and said second shield electrode are superposed as viewed from a laminated direction.

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12. (Withdrawn): An electrostatic capacitance sensor component comprising an electrostatic capacitance detector having a detecting electrode and a first shield electrode, and a flat plate-shaped second shield electrode laminated with said detecting electrode such that said second shield electrode and said detecting electrode become layers different from each other, wherein

said detecting electrode comprises a detector-detecting electrode for detecting an object to be detected and an electrode introducer-detecting electrode for introducing an electrode to said detector-detecting electrode,

said detector-detecting electrode is a flat plate-shaped electrode, said detecting electrode and said first shield electrode are provided such that at least a portion of said first shield electrode is located on a side of said detector-detecting electrode as viewed from a direction perpendicular to a main face of said flat plate-like electrode, and

said detecting electrode and said second shield electrode are provided such that said detector-detecting electrode and said electrode introducer-detecting electrode are superposed above said second shield electrode as viewed from the laminated direction of said detecting electrode and said shield electrode.

13. (Previously Presented and Withdrawn): An electrostatic capacitance sensor component as recited in claim 11, wherein

said electrostatic capacitance detector further comprises a third shield electrode,

said third shield electrode is a flat plate-shaped electrode and laminated with said detecting electrode opposite from said shield electrode with respect to said detecting electrode, and

said detecting electrode and said third shield electrode are provided such that said detector-detecting electrode and said electrode introducer-detecting electrode are superposed above said second shield electrode as viewed from a laminated direction of said detecting electrode and said shield electrode.

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14. (Withdrawn): An object mounting apparatus, comprising
an object mounting body for mounting an object,
at least two object detecting electrodes mounted to said object mounting body, and
at least two detecting circuits respectively connected to said at least two object
detecting electrodes, wherein
each of said two detecting circuits comprises
an operational amplifier in which a feedback impedance circuit is connected between
an output terminal and an inverse input terminal of said operational amplifier,
a signal line connected between said inverse input terminal of said operational
amplifier and one of said at least two object detecting electrodes,
an alternating-current signal generator connected to a non-inverse input terminal of
said operational amplifier, and
a shield for shielding at least a portion of said signal line, said shield being connected
to said non-inverse input terminal of said operational amplifier and said alternating-current
signal generator.
15. (Withdrawn): An object mounting apparatus, comprising
an object mounting body for mounting an object,
at least two object detecting electrodes mounted to said object mounting body,
an operational amplifier in which a feedback impedance circuit is connected between
an output terminal and an inverse input terminal of said operational amplifier,
a signal line connected to said inverse input terminal of said operational amplifier,
an alternating-current signal generator connected to a non-inverse input terminal of
said operational amplifier,
a shield for shielding at least a portion of said signal line, said shield being connected
to said non-inverse input terminal of said operational amplifier and said alternating-current
signal generator, and
a switch for switching connections between said signal line and said at least two
object detecting electrodes and capable of connecting said signal line to any one of said at
least two object detecting electrodes.

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16. (Withdrawn): An object mounting apparatus as recited in claim 14, further comprising at least two shield electrodes mounted to said object mounting body, wherein said at least two shield electrodes respectively shield at least portions of said at least two object detecting electrodes and said at least two shield electrodes are respectively connected to said shields of said at least two detecting circuits.

17. (Withdrawn): An object mounting apparatus as recited in claim 15, further comprising at least two shield electrodes mounted to said object mounting body, wherein said at least two shield electrodes respectively shield at least portions of said at least two object detecting electrodes and said at least two shield electrodes are respectively connected to said shields or connected to said shields through said switch.

18. (Withdrawn): An object mounting apparatus as recited in claim 16, wherein each of said at least two object detecting electrodes comprises a detector-detecting electrode for detecting an object to be detected, and said detector-detecting electrode is shielded by said shield electrode in at least one direction.

19. (Withdrawn): An object mounting apparatus as recited in claim 14, wherein said object is a flat plate-shaped object, and said detector-detecting electrodes of said at least two object detecting electrodes are disposed such that when said object is mounted on said object mounting body, an arrangement of said detector-detecting electrodes is in parallel to a bottom face of said object.

20. (Withdrawn): An object mounting apparatus as recited in claim 14, wherein said object is a flat plate-shaped object, and when said object is mounted on said object mounting body, if a surface of projection obtained by projecting said object on said object mounting body is divided into at least two sub-regions such that areas of the sub-regions are equal to each other, said at least two object detecting electrodes are disposed on positions respectively corresponding to said at least two sub-regions.

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21. (Withdrawn): A wafer transfer apparatus
said wafer transfer apparatus comprises an object mounting apparatus as recited in
claim 14, wherein said object is a semiconductor wafer.
22. (Withdrawn): A substrate transfer apparatus for manufacturing a liquid crystal
display device, wherein
said substrate transfer apparatus comprises an object mounting apparatus as recited in
claim 14, and said object is a substrate for manufacturing a liquid crystal display device.
23. (Original): A semiconductor manufacturing apparatus comprising a
electrostatic capacitance sensor as recited in claim 1.
24. (Original): A liquid crystal display device manufacturing apparatus
comprising a electrostatic capacitance sensor as recited in claim 1.
25. (Previously Presented): An electrostatic capacitance detector as recited in
claim 1, wherein the shield electrode is three shield electrodes, a first shield electrode is in a
plane with the detecting electrode, a second shield electrode is above and a third shield
electrode is below the plane of the detecting electrode.

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